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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/138,146	08/21/1998	MATTHEW BRETT BAILLIE	2-2	3730	
75	90 03/12/2002				
DOCKET ADMINISTRATOR (ROOM 3C-512) LUCENT TECHNOLOGIES INC 600 MOUNTAIN AVENUE			EXAMINER		
			CLARK, SHEILA V		
PO BOX 636 MURRAY HIL	L, NJ 079740636	ART UNIT	PAPER NUMBER		
, ioidair iii	2,110 072710020		2815		
		DATE MAILED: 03/12/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

- 4		Application No. 09/138,146	Applicant(s)	Baillie et	t al		
" Office Action Summary		Examiner Sheila V.Clark		Art Unit 2815			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
A SH	or Reply ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.						
af: - If the be - If NO co - Failur - Any ı ea	asions of time may be available under the provisions of 37 Ceter SIX (6) MONTHS from the mailing date of this community period for reply specified above is less than thirty (30) day considered timely. period for reply is specified above, the maximum statutory mmunication. The to reply within the set or extended period for reply will, be reply received by the Office later than three months after the rend patent term adjustment. See 37 CFR 1.704(b).	cation. s, a reply within the statu period will apply and wil	itory minimur I expire SIX (i	n of thirty (30) da 6) MONTHS from come ABANDONE	ays will the mailing date of this D (35 U.S.C. § 133).		
Status 1) 💢	Responsive to communication(s) filed on Jan 24, 2	2002			<u> </u>		
2a) 🗆							
	 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. 						
Disposi	tion of Claims						
4) 💢	Claim(s) <u>1-28</u>		is/are	e pending in the	e application.		
4	a) Of the above, claim(s) 8-20		is/ar	e withdrawn fr	om consideration.		
5) 🗆	Claim(s)			is/are allowed.			
6) 💢	Claim(s) 1-7 and 21-28			is/are rejected.			
7) 🗆	Claim(s)			is/are objected	l to.		
8) 🗆	Claims	are subje	ect to restric	ction and/or ele	ection requirement.		
9) 🗆 10) 🗔 11) 🗀	The specification is objected to by the Examiner. The drawing(s) filed on is/ard The proposed drawing correction filed on The oath or declaration is objected to by the Exam			b)□ disapprov	ved.		
13) □ a) □	under 35 U.S.C. § 119 Acknowledgement is made of a claim for foreign p All b) Some* c) None of: 1. Certified copies of the priority documents ha 2. Certified copies of the priority documents ha	ve been received.			·		
	3. Copies of the certified copies of the priority of application from the International Burdee the attached detailed Office action for a list of the action for a list of t	eau (PCT Rule 17.2(a))).	this National S	Stage		
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).							
Attachm	ent(s)						
15) 🔲 N	otice of References Cited (PTO-892)	18) Interview Summary	(PTO-413) Paper	No(s)			
16) 🔲 N	otice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (PTO-152)					
17) 🔲 In	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:					

Art Unit: 2815

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 5, 7, 21, 23, 24, 25, 27, 28 are rejected under 35 U.S.C. 102 (b) as being anticipated by MC Shane et al.

McShane et al shows a carrier having a base 40. An inner and outer wells formed by through holes 34 are shown formed about the periphery of the base. The inner well has an outer wall coupled to the inner wall of the outer well. And a chip 52 is shown positioned on the base and is deemed to be removable by removing means well know in the art. The wells of McShane are shown to have an upper surface and the distance features recited in claim 4. Figure 1 shows said through hole wells to encircle the base.

Said wells are shown to be distinct and separate and therefore discontinuous.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over McShane et al.

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McShane discloses that the wells may be formed of dielectric and metal materials and the lack of a description of particular materials is deemed to suggest use of conventional materials. Conventional materials well known in this technology used in circuit board structures would include such materials as polyimides and flexible metals such as copper and aluminum. Metal and substrate thickness would also determine the level of flexiblility of said structure. As the claim provides no specifics that characterize flexible it is deemed that McShane teaches obvious use of flexible materials for the reasons mentioned above.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 5, 6 and 7 rejected under 35 U.S.C. 102(b) as being anticipated by Budde.

Budde shows a base 5. An inner and outer wells 11 are shown formed about the periphery of the base. The inner well has an outer wall coupled to the inner wall of the outer well. And a chip 3 is shown positioned on the base. Said wells are shown the be formed of a continuous material of metal and said wells are also shown to be distinct and separate and therefore discontinuous.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Budde.

Budde discloses that the wells may be formed of metal materials (i.e. copper and aluminum) that have flexible characteristics shown by the bendability of the bended structure.

Metal and substrate thickness would also determine the level of flexibility of said structure. As the claim provides no specifics that characterize flexible it is deemed that Budde teaches obvious use of flexible materials for the reasons mentioned above.

Claims 22, 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over McShane et al.

The teaching of McShane relative the features of the claims from which claims 22 and 26 depend have been addresses above except for the carrier teaching relative to a plurality of devices are deemed to be applicable to a plurality of carrier devices. The package teachings of McShane though performed using a single package as an example does not limit said teachings to a single IC carrier style or package orientation. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to use a plurality of integrated circuit carriers. The ordinary artisan would have motivated to modify prior the carrier of McShane because carrier devices are often created as a plurality of carriers and then may be cut into single or plural structures and the teachings of McShane are performed using a single carrier as an example but may be applied to single or plural groupings as design modification dictate.

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Claims 1-7 and 21-28 are rejected.

The claims in the RCE application are the same as those addressed in the last office action so the rejection as been repeated.

Any inquiry concerning this communication should be directed to Examiner S.V. Clark at telephone number (703) 308-4924.

March 7, 2002

SHEILA V. CLARK PRIMARY EXAMINER